

## ANSWERS: Electron Configuration

$\text{Cu}^{2+}$	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^9$
Se	$[\text{Ar}] 3d^{10} 4s^2 4p^4$ or $4s^2 3d^{10} 4p^4$
V	$[\text{Ar}] 3d^3 4s^2$ or $4s^2 3d^3$
$\text{Mg}^{2+}$	$1s^2 2s^2 2p^6 3s^2$
As	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^3$
$\text{V}^{3+}$	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^2$
Ge	$[\text{Ar}] 3d^{10} 4s^2 4p^2$
Cu	$[\text{Ar}] 3d^{10} 4s^1$
$\text{Cu}^+$	$[\text{Ar}] 3d^{10}$
Fe	$[\text{Ar}] 3d^6 4s^2$
Al	$[\text{Ne}] 3s^2 3p^1$
$\text{Al}^{3+}$	$1s^2 2s^2 2p^6$
Na	$[\text{Ne}] 3s^1$
Ca	$[\text{Ar}] 4s^2$
Cr	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^1$
$\text{Mn}^{2+}$	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^5$
$\text{Ca}^{2+}$	$1s^2 2s^2 2p^6 3s^2 3p^6$
Br	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^5$
$\text{Fe}^{2+}$	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^6$
Sc	$[\text{Ar}] 3d^1 4s^2$
$\text{Br}^-$	$[\text{Ar}] 3d^{10} 4s^2 4p^6$
K	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$
$\text{P}^{3-}$	$1s^2 2s^2 2p^6 3s^2 3p^6$
$\text{Zn}^{2+}$	$[\text{Ne}] 3s^2 3p^6 3d^{10}$
Mn	$[\text{Ar}] 4s^2 3d^5$